

# ANDREW GAO

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## EDUCATION

### Cornell University

Ithaca, NY

*B.A. in Computer Science and Statistical Science, Milstein Program Scholar*

*Expected Graduation: May 2022*

- GPA (weighted): **3.77/4.00**, Dean's List
- Relevant Coursework: Discrete Structures, OO Programming and Data Structures, Linear Algebra, Data Structures and Functional Programming, Statistical Theory and Application

### Algonquin Regional High School

Northborough, MA

*Graduate*

*Aug 2014 – Jun 2018*

- GPA (weighted): **5.05/5.00**, Rank: **10/343**
- SAT: **1560/1600**, ACT: **35/36**, SAT Subject Tests: Math 2 (**800/800**), Chemistry (**800/800**)
- APs: Biology (**5**), Calculus BC (**5**), Chemistry (**5**), Computer Science A (**5**), Physics C Mechanics (**5**), Physics C E&M (**5**)
- Awards: RIT Computing Medal, University of Rochester Bausch & Lomb Award, St. Michael's Book Award, French Academic Excellence Award, National Merit Scholarship Semifinalist, National AP Scholar, Principal's List

## WORK EXPERIENCE

### Worcester Polytechnic Institute Bioinformatics & Computational Biology

Worcester, MA

*Web and Android Application Developer*

*Jun 2017 – Apr 2018*

- Rebuilt user interface to adhere with Google's Material Design for an Android application that collects data on locations of threatened bumblebees in New England
- Increased accessibility and streamlined usability of screens in Android application using Java and XML in Android Studio
- Created framework for website using HTML, CSS, Javascript, and Angular in Visual Studio Code

### Self-Employed (Fiverr)

Southborough, MA

*Freelance Graphics Designer*

*Oct 2014 – Aug 2018*

- Designed custom social media graphics using GIMP for over 80 clients in 10 different countries
- Maintained a 5-star rating since inception and favorited by over 180 users

## VOLUNTEER EXPERIENCE

### Yingkou Thrombosis Hospital

Yingkou, Liaoning, China

*Volunteer*

*Aug 2017*

- Shadowed lead radiologist and technicians for 100+ hours in order to learn about ultrasound, X-rays, and CT scans
- Observed laparoscopic surgery of the uterus and surgical procedures during a visit to the Yingkou Central Hospital

### Selecta Biosciences

Watertown, MA

*Selected Shadow Program Participant*

*Aug 2016*

- Shadowed Head of Chemistry in the lab for a clinical-stage biopharmaceutical company, learning about lab procedures, pharmaceutical development, and drug delivery mechanisms
- Assisted in preparation of buffer solutions for protein conjugation

### Algonquin Peer Tutoring

Northborough, MA

*Tutor*

*Oct 2016 – Jun 2018*

- Tutored fellow students in chemistry, geometry, precalculus after school for a total of 60+ hours

## LEADERSHIP & ACTIVITIES

### Algonquin Science Research Club

Northborough, MA

*Founder & President*

*Sep 2016 – Jun 2018*

- Designed and programmed Arduino boards in order to measure light levels on the roof of the school
- Created a kinetic mural dedicated to school's retiring principal, incorporating solar panels and 3-D printed parts

### Algonquin Health Occupations Students of America (HOSA)

Northborough, MA

*Senior Member & Project Committee Member*

*Sep 2015 – Jun 2018*

- Awarded first place in the EMT event of the 2017 Massachusetts HOSA competition
- Planned school-wide events such as an American Heart Association fundraiser and an experiment about test-taking strategies

### Algonquin FRC Team 1100 Robotics

Northborough, MA

*Senior Member, Manipulator Subteam*

*Sep 2014 – Jun 2018*

- Used Solidworks CAD and power tools to design and engineer various parts for precise object placement
- Volunteered at local events such as Applefest, Heritage Day, and FLL qualifiers for community outreach

### Algonquin Math Team

Northborough, MA

*Varsity Team A Member*

*Sep 2014 – Jun 2018*

- Achieved highest score of all team upperclassmen, ranking top 30 in the Worcester County Math League for 2016-17
- Assisted in organizing practices and recruiting over ten new members

## SKILLS & INTERESTS

**Languages:** Mandarin (Conversational), French (Basic)

**Computers:** GIMP, Inkscape, Figma, Java, XML, HTML, CSS, Linux, Terminal, Flutter

**Interests:** Photography, Drawing, Volleyball (Cornell club setter), Graphic design